Appl. No. 10/077,121 Doc. Ref. AR1

PATENT ABSTRACTS OF JAPAN

(11)Publication number:

11-356097

(43)Date of publication of application: 24.12.1999

(51)Int.CI.

H02P 9/08

(21)Application number: 11-133003

(71)Applicant: CAPSTONE TURBINE CORP

(22)Date of filing:

13.05.1999

(72)Inventor: MARK G GILBRETH

JAMES BRIAN DICKI

CHARLES R GILBRETH JR EDWARD C EDELMAN

(30)Priority

Priority number: 98 80892 Priority

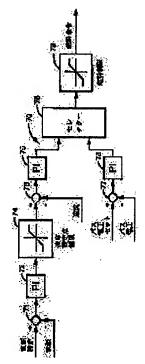
Priority date: 18.05.1998 Priority country: US

(54) METHOD AND EQUIPMENT FOR CONTROLLING PERMANENT MAGNET TURBINE GENERATOR/MOTOR

(57) Abstract:

PROBLEM TO BE SOLVED: To find maximum efficiency for a gas turbine engine by keeping the temperature of exhaust gas of a gas turbine constant with such stability that can be obtained by changing the sampling time of different proportional- plus-integral controllers in a control loop of the gas turbine.

SOLUTION: A control system can be stabilized by the timing of serially connected proportional/integral controllers. The temperature of exhaust gas is associated with the fuel control for a gas turbine. Therefore, in order to keep the set value for exhaust gas temperature constant, response should be made in the appropriate time frame. In a loop timing of a power proportional/integral controller 72, control depends on the response time of a speed and exhaust gas temperature controller 75. Therefore, these parameter should be stabilized before the power proportional/integral controller 72 receives a next feedback signal. The gas turbine control system can be stabilized by setting the sampling times of the different proportional/integral controllers to different ones.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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